

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD2103	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Reclamation District No. 2103 Wheatland Vicinity	M *	9.77						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.09	0.01	0.13	1.33%				
Trim / Thin Trees	0.01		0.01	0.10%				
Encroachments					0.49			
Animal Control		0.01	0.04	0.41%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.10%				
Flood Preparedness & Training	0.10		0.10	1.02%				
<i>LMA Totals:</i>	0.21	0.02	0.29	2.97% *	0.49	0.00	0.00	0.00
Unit No. 01 South Dry Creek LB	Overall Unit Rating	Total Unit Miles						
RD2103	A	4.77						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.08		0.08	1.68%				
Trim / Thin Trees	0.01		0.01	0.21%				
Encroachments					0.49			
<i>Unit Totals:</i>	0.09	0.00	0.09	1.89%	0.49	0.00	0.00	0.00
Unit No. 02 Bear River RB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
RD2103	M *	5.00						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01	0.01	0.05	1.00%				
Animal Control		0.01	0.04	0.80%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.20%				
<i>Unit Totals:</i>	0.02	0.02	0.10	2.00% *	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2013 Levee Inspection Results

Reclamation District No. 2103 Wheatland Vicinity

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 2103 Wheatland Vicinity

Waterway			Bank	Unit Miles
Unit No. 01 South Dry Creek			Left	4.77
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/30/2013 - 04/30/2013		10/15/2013 - 10/15/2013	
DWR Inspector	Rick Burnett		Matthew Hoffman	
Accompanied By	Tom Engler		Tom Engler	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2103 Wheatland Vicinity

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek					Left	4.77	10/15/2013 10/15/2013	Matthew Hoffman

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End					Start	End	Photo
1			Earthen Levee	Flood Preparedness & Training	WS M Ma		°	°	2
DWR ID: DWR_RD2103_01_s_2012_2									
2			Earthen Levee	Operations & Maintenance Manuals	WS A Ma		°	°	5
DWR ID: DWR_RD2103_01_s_2013_5									
3			Earthen Levee	Emergency Supplies & Equipment	WS A Ma		°	°	6
DWR ID: DWR_RD2103_01_s_2013_6									
4	0.01	0.48	Earthen Levee	Encroachments	WS M En	FE : Fence	39.019849 ° -121.453871 °	39.021775 ° -121.445642 °	11
DWR ID: DWR_RD2103_01_f_2013_11									
5	0.39	0.39	Earthen Levee	Vegetation	WS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Berry bushes have been sprayed but need to be removed.	39.021448 ° -121.447252 °	39.021448 ° -121.447252 °	12
DWR ID: DWR_RD2103_01_f_2013_12									
6	0.73	0.73	Earthen Levee	Encroachments	LS M En	PR : Prunings Inspector Comments: Two pruning piles approx. 200ft apart on L/S slope.	39.022892 ° -121.444529 °	39.024105 ° -121.442552 °	4 Y
DWR ID: DWR_RD2103_01_s_2013_4									
7	0.80	0.80	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	39.024511 ° -121.441493 °	39.024511 ° -121.441493 °	10
DWR ID: DWR_RD2103_01_f_2013_10									
8	1.06	1.37	Earthen Levee	Vegetation	LS A/W Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	39.026009 ° -121.437021 °	39.028119 ° -121.432598 °	9
DWR ID: DWR_RD2103_01_f_2013_9									
9	2.75	2.75	Earthen Levee	Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	39.032502 ° -121.409080 °	39.032502 ° -121.409080 °	1
DWR ID: DWR_RD2103_01_f_2013_1									
10	3.47	3.47	Earthen Levee	Encroachments	LS M En	PR : Prunings	39.031831 ° -121.401406 °	39.031831 ° -121.401406 °	7
DWR ID: DWR_RD2103_01_f_2013_7									
11	4.52	4.58	Earthen Levee	Vegetation	WS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	39.041051 ° -121.394931 °	39.041810 ° -121.393951 °	8 Y
DWR ID: DWR_RD2103_01_f_2013_8									

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2103 Wheatland Vicinity

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek	Left	4.77	10/15/2013 10/15/2013	Matthew Hoffman

Levee Mile Report Line	6
Start Levee Mile	0.73
End Levee Mile	0.73
Location	Land Side
Category	Earthen Levee
Item	Encroachments

L/S slope pruning pile.

mhoffman_f_20130917_129.JPG



Levee Mile Report Line	11
Start Levee Mile	4.52
End Levee Mile	4.58
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo was taken from the crown of the levee facing west looking at the vegetation on the waterward slope of the levee.

mhoffman_f_20131016_660.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 2103 Wheatland Vicinity

Waterway			Bank	Unit Miles
Unit No. 02 Bear River			Right	5.00
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	04/30/2013 - 04/30/2013		10/15/2013 - 10/15/2013	
DWR Inspector	Rick Burnett		Matthew Hoffman	
Accompanied By			Tom Engler RD 2103	

Summer & Winter Inspections

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Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2103 Wheatland Vicinity

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Bear River						Right	5.00	10/15/2013 10/15/2013	Matthew Hoffman	
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.30	0.51	Earthen Levee	Riprap Revetments	WSA/W	Ma	Inspector Comments: The District has a concern dead trees placed in the rip rap may not stay in place during a high water event.	38.994660 ° -121.432170 °	38.995537 ° -121.428535 °	4 Y
DWR ID: DWR_RD2103_02_s_2012_4										
2	0.32	0.49	Earthen Levee	Vegetation	WSA/W	Ob	V8 : Environmental Requirements.	38.994756 ° -121.431809 °	38.995450 ° -121.428893 °	3 Y
DWR ID: DWR_RD2103_02_f_2013_3										
3	0.65	0.65	Earthen Levee	Trim / Thin Trees	WS	C Ma	T1 : Trim trees to at least five feet above ground level.	38.996076 ° -121.426157 °	38.996076 ° -121.426157 °	2 Y
DWR ID: DWR_RD2103_02_s_2013_2										
4	0.76	0.76	Earthen Levee	Animal Control	LS	U Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Large squirrel hole in the landward slope of the levee.	38.996588 ° -121.424209 °	38.996588 ° -121.424209 °	1 Y
DWR ID: DWR_RD2103_02_f_2013_1										
5	2.59	2.59	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.	39.008356 ° -121.397283 °	39.008356 ° -121.397283 °	6 Y
DWR ID: DWR_RD2103_02_f_2013_6										
6	2.64	2.64	Earthen Levee	Vegetation	LS	U Ma	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Large elderberry bush on L/S slope.	39.009077 ° -121.397318 °	39.009077 ° -121.397318 °	7 Y
DWR ID: DWR_RD2103_02_s_2013_7										
7	4.97	4.97	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	39.031426 ° -121.367073 °	39.031426 ° -121.367073 °	8 Y
DWR ID: DWR_RD2103_02_f_2013_8										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 2103 Wheatland Vicinity

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	5.00	10/15/2013 10/15/2013	Matthew Hoffman

Levee Mile Report Line	1
Start Levee Mile	0.30
End Levee Mile	0.51
Location	Water Side
Category	Earthen Levee
Item	Riprap Revetments
Trees at waters edge in the rip rap levee mile 0.30.	
mhoffman_f_20130917_132.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.30
End Levee Mile	0.51
Location	Water Side
Category	Earthen Levee
Item	Riprap Revetments
View of revetment with dead trees, Spring 2013.	
mhoffman_f_20130917_133.JPG	



Levee Mile Report Line	4
Start Levee Mile	0.76
End Levee Mile	0.76
Location	Land Side
Category	Earthen Levee
Item	Animal Control
This photo was taken from the levee crown facing east looking down the landward levee slope at a large squirrel hole.	
mhoffman_f_20131016_659.JPG	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2103 Wheatland Vicinity

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	5.00	10/15/2013 10/15/2013	Matthew Hoffman

Levee Mile Report Line	6
Start Levee Mile	2.64
End Levee Mile	2.64
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Large elderberry bush on L/S slope.	
mhoffman_f_20130917_135.JPG	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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